

Patent claims

1. An open-cooled component for a gas turbine having an outer wall (20) which is subjected to hot gas and which at least partly defines a first cavity (15) for a first medium and in which through-openings (3, 12) are arranged, which through-openings (3, 12) open into the cavity (15) on the one side and into the hot-gas space (21) on the other side, and having at least one second cavity for admixing a second medium, this second cavity being fluidically connected to the through-openings (3, 12), characterized in that the second cavity is formed by supply passages (9, 13) which are provided in the outer wall (20) and are connected via transverse passages (4) to the through-openings (3, 12) designed as through-bores, so that the two media cannot be mixed until inside the through-bores.

2. The component as claimed in claim 1, characterized in that the outer wall (20) has a multiplicity of through-bores, a multiplicity of supply passages (9, 13) running between the bores and a multiplicity of further transverse passages (4) linking the supply passages (9, 13) with the through-bores.

3. The component as claimed in claim 1 or 2, characterized in that the outer wall (2) has at least two layers (6, 7, 16, 17) which can be connected to one another.

4. The component as claimed in claim 1, 2 or 3, characterized in that the passages (4, 9, 13) are incorporated between the two layers

(6, 7) in at least one layer surface (6).

5     5.    The component as claimed in one of claims 1 to 4,  
characterized in that the first cavity (15) can be connected to  
a first fluid source and the supply passages (9, 13) can be  
connected to a second fluid source.

10    6.    The component as claimed in claim 5, characterized in that  
one of the two fluid sources is an oxidation source and the  
other fluid source is a fuel source.

15    7.    The component as claimed in one of claims 1 to 4,  
characterized in that the component is a wall element (2) of a  
combustion chamber or a blade (10) of a gas turbine.

8.    A combustion chamber for a gas turbine, having a component  
designed as a wall element (2) as claimed in one of claims 1 to  
7.

20    9.    A gas turbine for a combustion chamber as claimed in claim  
8.

10.   A gas turbine having a component designed as a blade as  
claimed in one of claims 1 to 7.